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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,302	07/09/2003	Masahiko Kubota	03500.017375.	7090	
5514 2	7590 02/10/2005		EXAM	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			CHU, JO	CHU, JOHN S Y	
NEW YORK,			ART UNIT	PAPER NUMBER	
,			1752		
			DATE MAILED: 02/10/2009	DATE MAILED: 02/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

· .			in				
	Application No.	Applicant(s)					
Office Antique Commence	10/615,302	KUBOTA ET AL.					
Office Action Summary	Examiner	Art Unit					
	John S. Chu	1752					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely the mailing date of this co	<i>).</i> ommunication.				
Status							
2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware	· · · · · · · · · · · · · · · · · · ·						
Disposition of Claims							
 4) Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) 1-12,17-32 and 37-40 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 13-16 and 33-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished and accomplished and accomplished and accomplished to the second accomplished and accomplished and accomplished acco	epted or b) objected to by the lidrawing(s) be held in abeyance. Section is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicativity documents have been received in CPCT Rule 17.2(a)).	on No ed in this National :	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/18/03,2/18/04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	-152)				

DETAILED ACTION

This Office action is in response to the election received November 1, 2004.

1. Applicant's election without traverse of Group II, claims 13-16 and 33-36 in the reply filed on November 1, 2004 is acknowledged.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 13-16 and 33-36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the current claims, the elected claims are dependent on non-elected claims. The claimed scope is unclear with respect to only the language of the elected claims. Correction is necessary to merge the non-elected claims with the elected claims and have a fully recited claim that particular points out the subject matter desired.

Secondly, claims 14-16 and 34-36 recite the limitation "the developing solution of the first positive photosensitive material..." in the method claims. There is insufficient antecedent basis for this limitation in the claim, because no wherein in claims 13 or 33 is there a disclosure for a developing solution on which claims 14-16 and 34-36 can depend.

Correction is necessary to have proper antecedent basis for the developing solution.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. NGO et al is cited to disclose a two layer resist process using a copolymer. No ternary copolymer is disclosed.

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GEISSLER et al disclose a terpolymer or ternary copolymer, however lacks the claimed method of making a liquid discharge head.

KUBOTA et al (2003/0070643) assigned to Canon Kabushiki Kaisha discloses a method of making a ink discharge head, however the references lacks a ternary copolymer as currently claimed for making a pattern used in making the liquid channel structure. A copolymer of methyl methacrylate/methacrylic acid is disclosed, however no third monomer group which affects the sensitivity region by expanding the range is claimed.

OHKUMA (6,766,579), assigned to Canon Kabushiki Kaisha discloses a method of making an ink discharge head, however lacks the claimed ternary copolymer in the process of making the patterned liquid channel structure.

MIYAGAWA et al (2003/0011655), also assigned to Canon Kabushiki Kaisha disclose a method of making a ink discharge head, however the references lacks a ternary copolymer as currently claimed for making a pattern used in making the liquid channel structure.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent
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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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John S. Chu

Primary Examiner, Group 1700

J.Chu February 5, 2005